

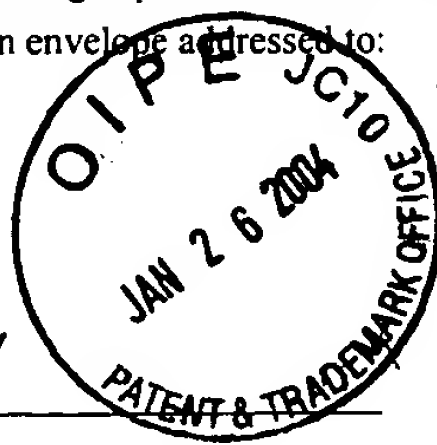
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TOWNSEND and TOWNSEND and CREW LLP

By: London Clark



Attorney Docket No.: 020144-001900US

PATENT
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Peter Wagner

Application No.: 09/966,571

Filed: September 26, 2001

For: ARRAYS DEVICES AND
METHODS OF USE THEREOF

Examiner: Nelson C. Yang

Art Unit: 1641

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08 are being called to the attention of the Examiner. In accordance with 37 CFR §1.98(d), copies of references AA-CI, CV-DM and EA-GF can be found in Application No. 09/115,455, filed July 14, 1998 now US Patent 6,406,921 B1 issued June 18, 2002 (Attorney Docket No. 020144-001900US). Copies of references CJ-CU, DN-DZ and GG are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

01/28/2004 HROCHA1 00000028 201430 09966571

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100.00 DA

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

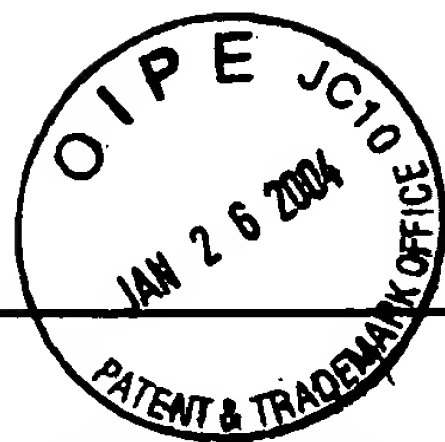
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Respectfully submitted,



Patrick R. Jewik
Reg. No. 40,456

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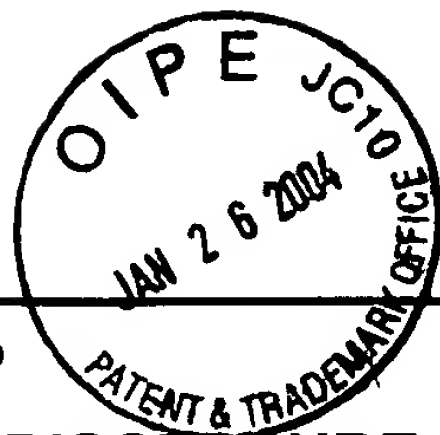
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			Application Number	09/966,571	
			Filing Date	September 26, 2001	
			First Named Inventor	Wagner, Peter	
			Art Unit	1641	
			Examiner Name	Nelson C. Yang	
Sheet	1	of	7	Attorney Docket Number	020144-001960US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-4,071,409	01-31-1978	Messing et al.	
	AB	US-4,562,157	12-31-1985	Lowe et al.	
	AC	US-4,690,715	09-01-1987	Allara et al.	
	AD	US-4,722,896	02-02-1988	Kadish et al.	
	AE	US-4,908,112	03-13-1990	Pace	
	AF	US-4,973,493	11-27-1990	Guire	
	AG	US-4,987,032	01-22-1991	Tsutomu et al.	
	AH	US-5,079,600	01-07-1992	Schnur et al.	
	AI	US-5,096,807	03-17-1992	Leaback	
	AJ	US-5,143,854	09-01-1992	Pirung et al.	
	AK	US-5,154,808	10-13-1992	Miyasaka, et al.	
	AL	US-5,160,597	11-03-1992	Colapicchioni et al.	
	AM	US-5,242,828	09-07-1993	Bergstrom et al.	
	AN	US-5,252,743	10-12-1993	Barrett et al.	
	AO	US-5,294,369	03-15-1994	Shigekawa et al.	
	AP	US-5,296,114	03-22-1994	Manz	
	AQ	US-5,304,487	04-19-1994	Wilding et al.	
	AR	US-5,342,692	08-30-1994	Ribi	
	AS	US-5,384,261	01-24-1995	Winkler et al.	
	AT	US-5,405,766	04-11-1995	Kallury et al.	
	AU	US-5,405,783	04-11-1995	Pirung et al.	
	AV	US-5,412,087	05-02-1995	McGall et al.	
	AW	US-5,429,708	07-04-1995	Linford et al.	
	AX	US-5,441,876	08-15-1995	Singh	
	AY	US-5,445,934	08-29-1995	Fodor et al.	
	AZ	US-5,472,881	12-05-1995	Beebe et al.	
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	BD	US-5,514,501	05-07-1996	Tarlov	
	BE	US-5,520,787	05-28-1996	Hanagan et al.	
	BF	US-5,571,410	11-05-1996	Swedberg et al.	
	BG	US-5,593,838	01-14-1997	Zanzucchi et al.	
	BH	US-5,603,351	02-18-1997	Cherukuri et al.	
	BI	US-5,605,662	02-25-1997	Heller et al.	
	BJ	US-5,620,850	04-15-1997	Bamdad et al.	
	BK	US-5,622,826	04-22-1997	Varma	
	BL	US-5,624,711	04-29-1997	Sundberg et al.	
	BM	US-5,629,213	05-13-1997	Komguth et al.	

Examiner Signature		Date Considered	
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PTO/SB/08 (08-03)

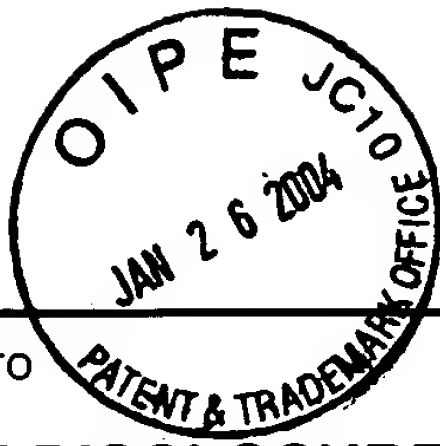
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			Art Unit	1641	
			Examiner Name	Nelson C. Yang	
Sheet	2	of	7	Attorney Docket Number	020144-001960US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	BN	US-5,635,358	06-03-1997	Wilding et al.	
	BO	US-5,637,469	06-10-1997	Wilding et al.	
	BP	US-5,677,195	10-14-1997	Winkler et al.	
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	BR	US-5,681,484	10-28-1997	Zanzucchi et al.	
	BS	US-5,688,642	11-18-1997	Chrissey et al.	
	BT	US-5,700,643	12-23-1997	Monforte et al.	
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	BV	US-5,726,026	03-10-1998	Wilding et al.	
	BW	US-5,731,152	03-24-1998	Maracas et al.	
	BX	US-5,744,305	04-28-1998	Fodor et al.	
	BY	US-5,766,908	06-19-1998	Klein et al.	
	BZ	US-5,776,674	07-07-1998	Ulmer	
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	CB	US-5,843,767	12-01-1998	Beattie	
	CC	US-5,858,188	01-12-1999	Soane et al.	
	CD	US-5,861,242	01-19-1999	Chee et al.	
	CE	US-5,866,345	02-02-1999	Wilding et al.	
	CF	US-5,919,523	07-06-1999	Sundberg et al.	
	CG	US-5,925,552	07-20-1999	Keogh et al.	
	CH	US-5,928,880	07-27-1999	Wilding et al.	
	CI	US-5,942,443	08-24-1999	Parce et al.	
	CJ	US-5,700,642	12-23-1997	Monforte et al.	
	CK	US-5,851,840	12-22-1998	Sluka et al.	
	CL	US-6,329,209 B1	12-11-2001	Wagner et al.	
	CM	US-6,365,418 B1	04-02-2002	Wagner et al.	
	CN	US-6,406,921 B1	06-18-2002	Wagner et al.	
	CO	US-6,454,924 B2	09-24-2002	Jedrzejewski et al.	
	CP	US-6,475,808 B1	11-05-2002	Wagner et al.	
	CQ	US-6,475,809 B1	11-05-2002	Wagner et al.	
	CR	US-6,576,478 B1	06-10-2003	Wagner et al.	
	CS	US-6,582,969 B1	06-24-2003	Wagner et al.	
	CT	US-6,596,545 B1	07-22-2003	Wagner et al.	
	CU	US-6,630,358 B1	10-07-2003	Wagner et al.	
		US-			

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FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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	CV	WO	93/21528		10-28-1993	Lang, et al.		<input type="checkbox"/>
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	DV	WO	95/08770		03-30-1995	Seeger, et al.		<input type="checkbox"/>
	DW	WO	97/21094		06-12-1997	Van Gerwen, et al.		<input type="checkbox"/>
	DX	WO	97/33737		09-18-1997	Whitesides, et al.		<input type="checkbox"/>
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	DZ	WO	98/43086		10-01-1998	Everhart, et al.		<input type="checkbox"/>
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				First Named Inventor	Wagner, Peter
				Art Unit	1641
				Examiner Name	Nelson C. Yang
Sheet	4	of	7	Attorney Docket Number	020144-001960US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	EA	Becker et al. "Fabrication of microstructures with high aspect ratios and great structural heights by synchrotron radiation lithography, galvanofarming, and plastic moulding (LIGA process)" Microelectronic Engineering 4:35-56 (1986).	
	EB	Becker et al. "Production of separation -nozzle systems for uranium enrichment by a combination of x-ray lithography and galvanoplastics" Naturwissenschaften 69:520-523 (1982).	
	EC	Cha et al. Expression of fused protein, human interleukin-2 and green fluorescent protein, in insect larvae. Annual Meeting of The American Institute of Chemical Engineers, Los Angeles, CA, Nov. 1997.*	
	ED	Cload et al., "Development of improved tRNAs for in vitro biosynthesis of proteins containing unnatural amino acids," Chemistry and Biology, 3:1033-1038 (1996).	
	EE	Colliod et al. "Oriented and covalent immobilization of target molecules to solid supports" Synthesis and application of a light-activatable and thiol-reactive cross-linking reagent Bioconjugate Chem. 4:528-536 (1993).	
	EF	Condra et al. "In vivo emergence of HIV-1 variants resistant to multiple protease inhibitors" Nature 374:569-571 (1995).	
	EG	Dammer et al., "Specific antigen/antibody interactions measured by force microscopy," Biophysical Journal, 70:2437-2441 (1996).	
	EH	Dawson et al., "Peptide-derived self-assembled monolayers: adsorption of N-stearoyl L-Cysteine methyl ester on gold," Journal of Molecular Recognition, 10:18-25 (1997).	
	EI	Duschl et al., "Surface engineering: optimization of antigen presentation in self-assembled monolayers," Biophysical Journal, 70:1985-1995 (1996).	
	EJ	Dzgoev et al "Microformat imaging ELISA for pesticide determination" Anal. Chem. 68(19):3364 (1996).	
	EK	Ekins "Ligand assays" from electrophoresis to miniaturized microarrays Clin. Chem. 44(9):2015-2030 (1998).	
	EL	Elkins et al. "Multianalyte microspote immunoassay-microanalytical "compact disk" of the future" Clin. Chem. 37(11):1955-1967 (1991).	
	EM	Ellman et al., "Biosynthetic method for introducing unnatural amino acids site-specifically into proteins," Methods in Enzymology, 202:301-337 (1991).	
	EN	Geohegan et al. "Fluorescence-based continuous assay for the aspartyl protease of human immunodeficiency virus-1" FEBS 262:119-122 (1990).	
	EO	Hegner et al., "Immobilizing DNA on gold via thiol modification for atomic force microscopy imaging in buffer solutions," FEBS, 336(3):452-456 (1993).	
	EP	Hegner et al., "Modified DNA immobilized on bioreactive self-assembled monolayer on gold for dynamic force microscopy imaging in aqueous buffer solution," J. Vac. Sci. Technol. B, 14(2):1418-1421 (1996).	

Examiner Signature		Date Considered	
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PTO/SB/08 (08-03)

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			Examiner Name	Nelson C. Yang	
Sheet	5	of	7	Attorney Docket Number	020144-001960US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	EQ	Hegner et al., "Ultralarge atomically flat template-stripped Au surfaces for scanning probe microscopy," Surface Science, 291:39-46 (1993).	
	ER	Ho et al. "Characterization of human immunodeficiency virus type 1 variants that encode viral proteases with decreased sensitivity to an inhibitor of the viral protease" Journal of Virology 68:2016-2020 (1994).	
	ES	Hochuli et al., "Genetic approach to facilitate purification of recombinant proteins with a novel metal chelate adsorbent," Biotechnology, 6:1321-1325 (1988).	
	ET	Jacobson et al. "Fused quartz substrates for microchip electrophoresis" Anal. Chem. 67:2059-2063.	
	EU	Jones et al. "Microminaturized immunoassays using atomic force microscopy and compositionally patterned antigen arrays" Anal. Chem. 70(7):1223-1241 (1998).	
	EV	Kaplan et al. "Selection of multiple human immunodeficiency virus type 1 variants that encode viral proteases with decreased sensitivity to an inhibitor of the viral inhibitor" Proc. Natl. Acad. Sci. USA 91:5597-5601 (1994).	
	EW	Kemeny. Enzyme-linked immunoassays. In Immuno-Chemistry 1 (eds Johnstone and Turner). pp. 147-175, Nov. 1997.*	
	EX	Korant et al. "The HIV protease and therapies for aids" Adv. in Experimental Med. and Biol 421:279-284 (1997).	
	EY	Kricka "Miniaturization of analytical systems" Clin. Chem. 44(9):2008-2014 (1998).	
	EZ	Lemmo et al., "Characterization of inkjet chemical microdispenser for combinatorial library synthesis," Anal. Chem., 69:543-551 (1997).	
	FA	Linford et al., "Alkyl monolayers on silicon prepared from 1-alkenes and hydrogen-terminated silicon," J. Am. Chem. Soc., 117:3145-3155 ((1995).	
	FB	Loeb et al. "Complete mutagenesis of the HIV-1 protease" Nature 340:397-400 (1989).	
	FC	Louis et al. "Autoprocessing of the HIV-1 protease using purified wild-type and mutated fusion proteins expressed at high levels in Eschericia coli" Eur. J. Biochem. 199:361-369 (1991).	
	FD	Marks et al. "By-passing immunization- Human antibodies from V-gene libraries displayed on phage" J. Mol. Biol. 222:581-597 (1991).	
	FE	Martynova et al. "Fabricating of plastic microfluid channels by imprinting methods" Anal. Chem. 69:4783-47-89 (1997).	
	FF	Mauracher et al. Reduction of rubella ELISA background using heat denatured sample buffer. J. Immunol. Methods. 145:251-254, 1991.*	

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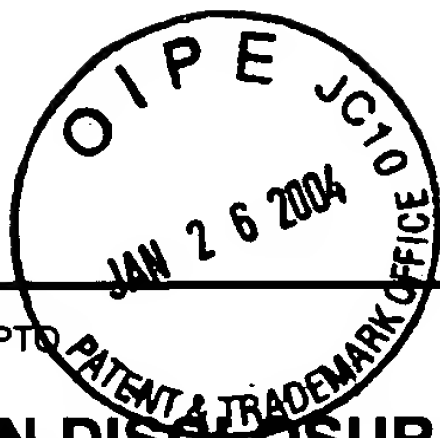
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Sheet	6	of	7	Attorney Docket Number	020144-001960US

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	FG	Moore et al. "Peptide substrates and inhibitors of HIV-1 protease" Biochem. Biophys. Res. Com. 159:420-425 (1989).	
	FH	Mrksich et al., "Controlling cell attachment on contoured surfaces with self-assembled monolayers of alkanethiolates on gold," Proc. Natl. Acad. Sci. USA, 93:10775-10778 (1996).	
	FI	Nock et al. (1997). Reversible, site specific immobilization of polyarginine-tagged fusion protein on mica surfaces. FEBS Letters. 414:233-238.	
	FJ	Noren et al., "A general method for site-specific incorporation of unnatural amino acids into proteins," Science, 244:182-188 ((1989).	
	FK	Pale-Grosdemange et al. (1991). Formation of self-assembled monolayers by chemisorption of derivatives of oligo(ethylene glycol) of structure HS(CH ₂) ₁₁ (OCH ₂ CH ₂)mOH on gold. J. Am. Chem. Soc. 113(1):12-20.*	
	FL	Prime et al., "Self-assembled organic monolayers: model systems for studying absorption of proteins at surfaces," Science, 252:1164-1167 (1991).	
	FM	Roberts et al. "Rationale design of peptide-based HIV proteinase inhibitors" Science 248:358-361 (1990).	
	FN	Rowe et al. "Array biosensor for simultaneous identification of bacterial, viral and protein analytes" Anal. Chem. 71(17):3846-3852 (1999).	
	FO	Schock et al. "Mutational anatomy of an HIV-1 protease variant conferring cross-resistance to protease inhibitors in clinical trials" J. Biol. Chem. 271:31957-31963 (1996).	
	FP	Sigal et al. "A self-assembled monolayer for the binding and study of histidine-tagged proteins by surface plasmon resonance" Anal. Chem 68:490-497 (1996).	
	FQ	Silzel et al. "Mass-sensing, multianalyte microarray immunoassay with imaging detection" Clin. Chem. 44(9):2036-2043 (1998).	
	FR	Singhvi et al., "Engineering cell shape and function," Science, 264:696-698 (1994).	
	FS	Skalka: Retroviral proteases: first glimpses at the anatomy of a processing machine Cell 56:911-913 (1989).	
	FT	Stennicke et al., "Biochemical characteristics of caspases-3, -6, -7, and -8," The Journal of Biological Chemistry, 272:25719-25723 (1997).	
	FU	Sundberg et al., "Spatially-addressable immobilization of macromolecules on solid supports," J. Am. Chem. Soc., 117:12050-12057 (1995).	
	FV	Talanian et al., "Substrate specificities of caspase family proteases," The Journal of Biological Chemistry, 272:9677-9682 (1997).	

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			Application Number	09/966,571	
			Filing Date	September 26, 2001	
			First Named Inventor	Wagner, Peter	
			Art Unit	1641	
			Examiner Name	Nelson C. Yang	
Sheet	7	of	7	Attorney Docket Number	020144-001960US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	FW	Thomberry, "Interleukin-1.beta. converting enzyme," Methods in Enzymology, 244:615-631 (1994).	
	FX	Villa et al., "Caspases and caspase inhibitors," TIBS, 22:388-393 (1997).	
	FY	Wagner et al., ".omega.-functionalized self-assembled monolayers chemisorbed on ultraflat Au(111) surfaces for biological scanning probe microscopy in aqueous buffers," J. Vac. Sci. Technol. B, 14(2):1466-1471 (1996).	
	FZ	Wagner et al., "Bioreactive self-assembled monolayers on hydrogen-passivated Si(111) as a new class of atomically flat substrates for biological scanning probe microscopy," Journal of Structural Biology, 119:189-201 (1997).	
	GA	Wagner et al., "Covalent immobilization of native biomolecules onto Au(111) via N-hydroxysuccinimide ester functionalized self-assembled monolayers for scanning probe microscopy," Biophysical Journal, 70:2052-2066 (1996).	
	GB	Wagner et al., "Formation and in Situ modification of monolayers chemisorbed on ultraflat template-stripped gold surfaces," Langmuir, 11(10):3867-3875 (1995).	
	GC	Weiner et al. "Site-directed mutagenesis of double-stranded DNA by the polymerase chain reaction" Gene 151:119-123 (1994).	
	GD	Wilson et al., "Structure and mechanism of interleukin-1.beta. converting enzyme," Nature, 370:270-275 (1994).	
	GE	Wondrak et al. "Influence of flanking sequences on the dimer stability of human immunodeficiency virus type 1 protease" Biochemistry 35:12957-12962 (1996).	
	GF	Wu et al. "Structural basis for specificity of retroviral proteases" Biochemistry 37:4518-4526 (1998).	
	GG	Pham, et al. "Human Interleukin-2 Production in Insect (Trichoplusia ni) Larvae: Effects and Partial Control of Proteolysis", Biotechnology and Bioengineering vol. 62(2) pp. 175-182; Jan. 20, 1999.	

Examiner Signature		Date Considered	
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.